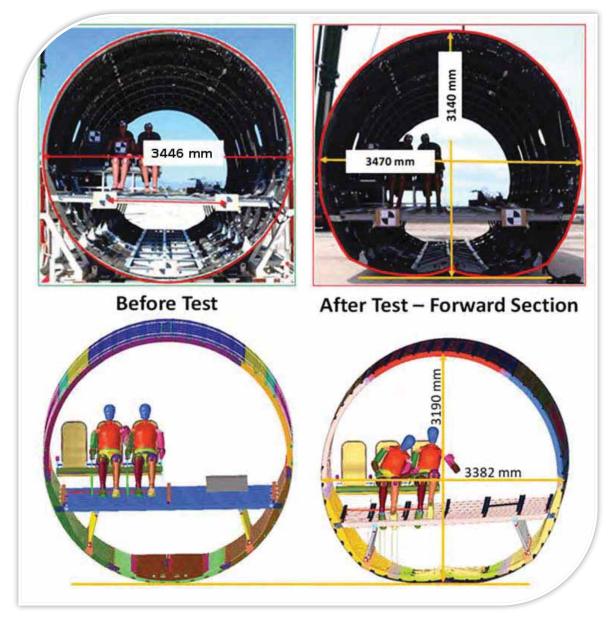


FEM techniques to simulate an experimental Drop Test of an aircraft's composite fuselage section





OBJECTIVE

- **To simulate** an experimental Drop Test using **FEM techniques** on a civil aircraft's fuselage section of **95%** composite material.
- Drop Test executed by **Impact Laboratory** of **Aerospace Structures** (LISA) of **CIRA** (Italian Center of Aerospace Research) commissioned by **LEONARDO**.
- Software: LS-DYNA

RESULTS

- · The numerical results are comparable to the experimentla ones
- · FEM tecniques are a great instrument to simulate and to study complex real problems

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